

Search history

Search FT=((beverage W8 dispense#)) AND (FT = (flexible OR collapsible) near (tube* OR container OR bag OR pouch)) AND (FT = spring OR
1: bias* OR press*) AND (FT = roller*) AND (FT = (out* OR discharge) near valve) and PD<20131230 and IC=(B65D* OR B67D*) (Results 53)

Search 1 AND (FT = coil) (Results 24)
2:

Search FT=((beverage W8 dispense#)) AND (FT = (flexible OR collapsible) near (tube* OR container OR bag OR pouch)) AND (FT = spring OR
3: bias* OR press*) AND (FT = roller*) AND (FT = (out* OR discharge) near valve) AND (FT = coil) and PD<20131230 and IC=(B65D75* OR
B67D1* OR B67D7) (Results 21)

Search 3 AND (FT = roll* OR envelope# OR wrap*) (Results 21)
4:

Title: SELF-DISPENSING **SPRING BIASED** THIN FILM CONTAINER

Abstract: Source: US4765512A A special **spring** construction is particularly adopted for a dispensing system for fluent materials from a plastic or equivalent thin film bag **rolled** up inside a **coiling** spiral formed from a strip sheet constant force **spring** material to squeeze out the bag contents completely and to produce dispensing force during storage periods for bulk quantities. The **coil spring** strip may be of a metal, plastic, elastomer or fibrous materials and may form a wall of the bag so that the container may be made at very low cost for storage of bulk fluids for dispensing therefrom one serving at a time. Thus, a package array for fluent materials comprises a thin **flexible**-walled **container** or **bag** having a common area with an uncoiled spiral constant force **spring** strip and positioned to **coil** up by **rolling** up a container bag tail inside the **coil spring** spiral as constants are discharged. The bag is placed in a container confining the fluid bag contents to occupy a position with a height corresponding to that of the constant force **coil spring** spiral diameter thereby to exert by the spiral a substantially constant force aiding the discharge of the contents over the entire bag capacity. Various embodiments include mixing of separate stored ingredients at the time of dispensing, the unrefrigerated storage of milk for days, the **dispensing** of multiple carbonated **beverage** servings without decomposition, and the aseptic storage and dispensing of fluent materials made possible by preventing entry of air into materials stored in bulk when servings are made to dispense portions thereof.

Classifications:

International (ipc 8-9): B65D35/24 B65D75/58 B67D1/00

B67D5/00 (Advanced/Invention);

B65D75/52 B67D1/00 (Core/Invention)

International (ipc 1-7): B65D35/24 B65D35/34 B65D83/00

B67C7/00 B67D3/00 B67D5/00 B67D5/54

CPC: B67D1/0001 B65D75/58

European: B65D75/58 B67D1/00C

US: 222/100 222/107 222/135 222/183 251/208

PatBase - US4765512_R

U.S. Patent Aug. 23, 1988 Sheet 1 of 6 4,765,512

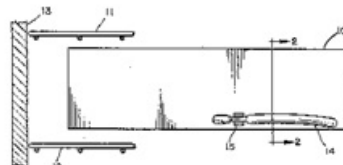


FIG. 1

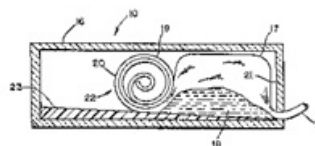


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
AU198312370 A1	19840913	AU19830012370	19830311
AU559494 B2	19870312	AU19830012370	19830311
BR8301258 A	19841023	BR19830001258	19830314
CA1143346 A1	19830322	CA19800351937	19800514
CA1195666 A1	19851022	CA19830419196	19830111
DE3303443 A1	19840802	DE19833303443	19830202
GB2131885 A1	19840627	GB19830000631	19830111
GB2131885 B2	19860122	GB19830000631	19830111
GB8300631 A0	19830209	GB19830000631	19830111
HK6491 A	19910125	HK19910000064	19910117
US4765512 A	19880823	US19860890607	19860730

Priority:

AU19830012370 19830311	CA19800351937 19800514	US19820448973 19821216
DE19833303443 19830202	US19790041426 19790522	CA19830419196 19830111
US19830542905 19831020	US19860875978 19860619	US19860890607 19860730

Probable Assignee: BULL G C

Assignee(s): (std): BULL GLEN C ; HILL WILLIAM HENRY ; HILL W H ; BULL JR GLEN C ; BULL G C ; BULL GLEN C JUN

Assignee(s): WILLIAM HENRY HILL ; BULL GC ; GLEN C BULL ; BULL GLEN C JR ; CLEN C BULL JR

Inventor(s): (std): BULL GLEN C JR ; BULL JR GLEN C ; BULL CLEN C JR ; BULL GLEN C

Inventor(s): GLEN C BULL ; VERZICHT DES ERFINDERS AUF NENNUNG ; CLEN C BULL JR

Agent(s): LORD AND CO; MEREDITH AND FINLAYSON

Title: Improvements in or relating to **beverage dispensing** apparatus.

Abstract: Source: EP0152283A2 Apparatus for **dispensing** a **beverage** consisting of a fluid circuit having a flow pipe and a return pipe, cooling means for cooling the beverage, pump means for continuously circulating the **beverage** around the fluid circuit, one or more **dispensing** valves or taps in the fluid circuit through which the **beverage** is **dispensed**, and a reservoir for containing the **beverage**, said reservoir being connected to the apparatus by quick release coupling means to facilitate removal thereof. Where the beverage is to be formed of two or more liquids, a metering pump is provided to effect mixing of the beverage and the supply thereof to the reservoir. The reservoir may also be of the disposable collapsible type which is again provided with quick release coupling means to enable it to be removed from the apparatus.

Classifications:

International (IPC 8-9): B67D1/00 B67D1/07 (Advanced/Invention);
B67D1/00 (Advanced/Non-invention);
B67D1/00 (Core/Invention);
B67D1/00 (Core/Non-invention);
B67D (Subclass/Invention)

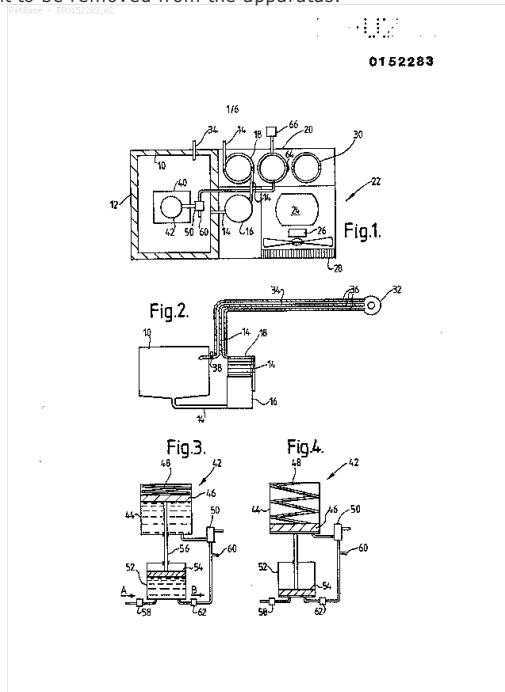
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CPC: B67D1/0016 B67D1/0054 B67D1/07 B67D1/1288

B67D2210/00031 B67D2210/00104

European: B67D1/00F2 B67D1/00H2D B67D1/07 B67D1/12N2B

L67D210/00D12D L67D210/00D2



Family:

Publication number	Publication date	Application number	Application date
EP0152283 A2	19850821	EP19850300834	19850208
EP0152283 A3	19851204	EP19850300834	19850208
GB2154206 A1	19850904	GB19850002497	19850131
GB2154206 B2	19871014	GB19850002497	19850131
GB8403455 A0	19840314	GB19840003455	19840209
GB8428892 A0	19841227	GB19840028892	19841115
GB8502497 A0	19850306	GB19850002497	19850131
JP60193889 A2	19851002	JP19850022075	19850208
ZA8500938 A	19851030	ZA19850000938	19850207

Priority:

GB19840003455 19840209 GB19840028892 19841115

Probable Assignee: DIXON R

Assignee(s): (std): BEWES W ; BEWES WILLIAM ; DIXON R ; DIXON RAYMOND ; REIMONDO DEIKUSON ; UIRIAMU BIYUUZU

Assignee(s): WILLIAM BEWES ; RAYMOND DIXON

Inventor(s): (std): DIXON RAYMOND ; BEWES WILLIAM ; UIRIAMU BIYUUZU ; REIMONDO DEIKUSON

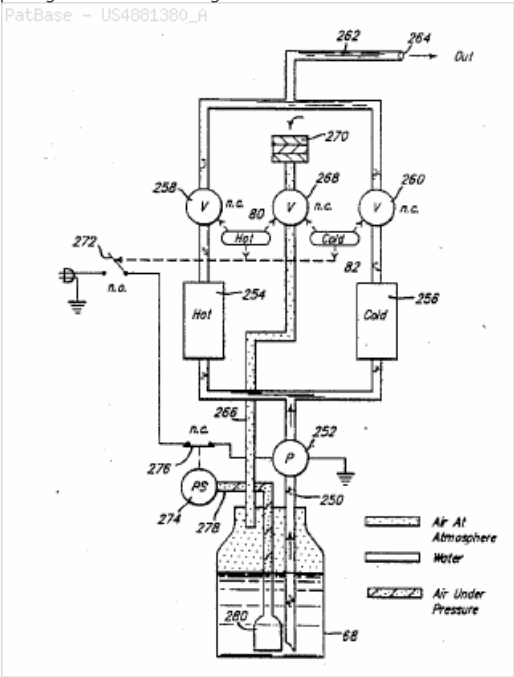
Inventor(s): RAYMOND DIXON ; WILLIAM BEWES

Designated states: AT BE CH DE FR IT LI LU NL SE

Title: PLUMBING MODULE FOR BOTTLED WATER COOLER

Abstract: Source: US4881380A The plumbing module is a self-contained fully operational unit which provides the capability of supplying both hot or room temperature and refrigerated water or other beverages. The module may be adapted without significant modification to a wide range of products and uses, including bottled water coolers, drinking fountains and beverage dispensers. A dual parallel condenser coil in the refrigeration system takes approximately one-half the space of conventional coils and provides adequate heat dissipation without requiring forced air cooling fans.

Classifications:
International (IPC 8-9): B67D1/08 B67D3/00 (Advanced/Invention); B67D1/00 B67D3/00 (Core/Invention)
International (IPC 1-7): B67D5/62
CPC: B67D2210/00097 B67D3/0009 B67D1/0858 B67D3/0022
European: B67D1/08D2 B67D3/00C B67D3/00F
US: 165/145 165/150 222/146.1 62/389 62/390 D7/306



Family:

Publication number	Publication date	Application number	Application date
US4881380 A	19891121	US19880176352	19880331

Priority:

US19880176352 19880331

Probable Assignee: KING SEELEY THERMOS CO

Assignee(s): (std): KING SEELEY THERMOS CO

Assignee(s): KING SEELEY THERMOS CO A DE CORP

Inventor(s): (std): LATZKO ROBERT L ; MRUGALA RONALD J ; NEGANDHI DIPAK J ; RAYMER DOYLE

Title: Bottled water cooler with improved valve construction

Abstract: Source: US4903935A The improved valve construction provides low force actuation and is therefore suitable in applications where children and handicapped persons may need to operate the valves. The pinch-type valve employs a lever arm pilot which supports a section of tubing in the fluid dispensing circuit. The lever arm is snap fit onto a valve plate and is adapted for rocking movement about a pivot point at one end of the lever arm. A valve cage supports a compression **spring** which applies a force upon the lever arm tending to depress the lever arm and its associated tube pinching valve seat into pinching contact with the tube. A force applied to the lever arm opposite the pivot point relieves the pinching force and the tube is thus opened for dispensing. An alternate flapper-type valve employs a valve pad encapsulated on the end of a lever arm which is in turn encapsulated in an O-ring seal so that the valve pad is situated at the center of the O-ring and the lever arm is disposed along a radial of the O-ring. The O-ring, lever arm and valve pad assembly is placed in a valve body which provides an inlet and outlet port, the inlet port having a serpentine bend to absorb turbulent shock. A **spring** is positioned behind the valve pad to hold it in the seated and closed position.

Classifications:

International (IPC 8-9): B67D1/08 B67D3/04 G01F23/16

G01F23/18 (Advanced/Invention);

B67D1/00 (Advanced/Non-invention)

International (IPC 1-7): B67D5/10 F16K7/06

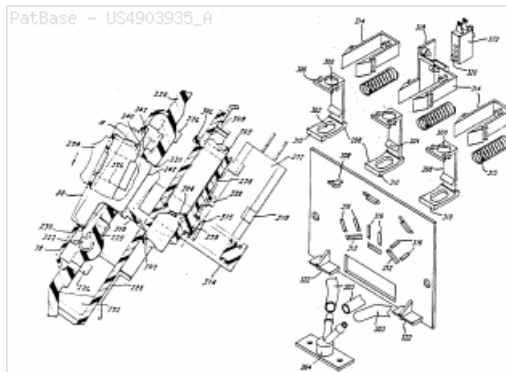
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G01F23/185

European: B67D1/08D2 B67D3/04B G01F23/16B G01F23/18A

L67D210/00D12F

US: 222/146.1 222/380 222/66 251/4 251/9



Family:

Publication number	Publication date	Application number	Application date
US4903935 A	19900227	US19880175925	19880331
US5042689 A	19910827	US19880175925D	19880331

Priority:

US19880175925 19880331

Probable Assignee: SCOTSMAN GROUP INC

Assignee(s): (std): KING SEELEY THERMOS CO ; SCOTSMAN GROUP INC

Assignee(s): KING SEELEY THERMOS CO A CORP ; KING SEELEY THERMOS CO A CORP OF DE ; KING SEELEY THERMOS CO A DE CORP ; KING SEELEY THERMOS COMPANY

Inventor(s): (std): RAYMER DOYLE ; NEGANDHI DIPAK J ; MRUGALA RONALD J ; LATZKO ROBERT L

Title: METHOD AND APPARATUS FOR PRODUCING AND DISPENSING AN AERATED AND/OR BLENDED FOOD PRODUCT

Abstract: Source: US2003085237A Apparatus for dispensing a frozen or partially frozen food product has a freezing surface with a central axis and periphery, a motor for rotating the freezing surface about that axis, a turret spaced above the freezing surface for depositing a selected amount of liquid product mix on the freezing surface while it is rotating so that the liquid mix spreads out on the freezing surface and cools to form a flat, at least partially frozen product body and a product delivery assembly disposed between the turret and the freezing surface. That assembly includes a scraper supported above the freezing surface and having a working edge engaging the freezing surface while it is rotating to scrape the frozen product body into a ridge row of scraped product. A vertical forming cylinder positioned adjacent to the periphery of the freezing surface has a side window and a bottom opening. A scraper blade may push the row of product into the forming cylinder through the window thereby compacting the scrapings into a shaped solid body. An ejector in the cylinder pushes the shaped solid body out of the bottom opening into a container such as a cup or cone. A dispensing method is also disclosed.

Classifications:

International (IPC 8-9): A21B1/22 A23G9/00 A23G9/04 A23G9/08 A23G9/12 A23G9/16 A23G9/20 A23G9/22 A23G9/28 A23G9/32 A23G9/46 A23G9/48 A23L1/00 A23P1/12 A47J27/00 B01F7/00 B65B63/08 B67D5/62 B67D7/80 F25C1/00 F25C1/14 F25C5/02 G05B19/41 G05B19/418 G06Q50/00 G07F13/06 G07F5/18 G07F9/10 (Advanced/Invention);

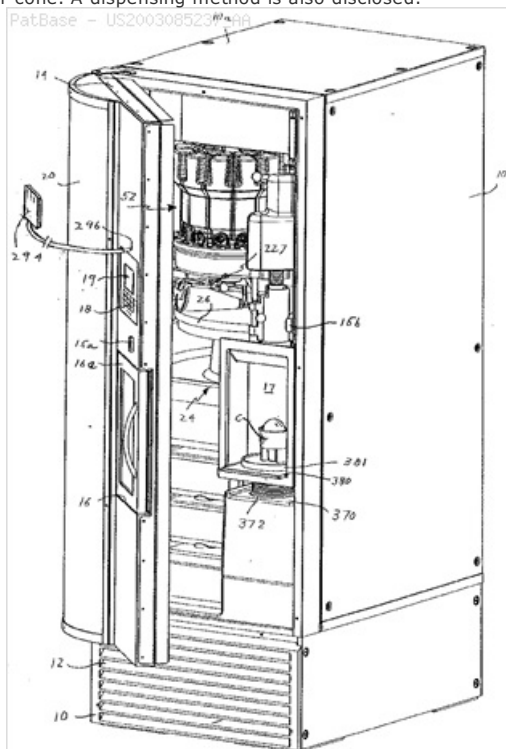
F25B41/04 F25C1/14 (Advanced/Non-invention); A21B1/00 A23G9/00 A23G9/04 A23L1/00 A47J27/00 B01F7/00 B65B63/00 B67D7/80 F25C1/00 G05B19/41 G05B19/418 G06Q50/00 G07F13/06 G07F5/00 (Core/Invention)

International (IPC 1-7): A21B1/22 A21C9/04 A23G9/00 A23G9/14 A23G9/28 A23P1/00 B65B63/08 B65D35/28 B67D5/62 F25B49/00 F25C1/14 F25C5/02 G07F13/06 G07F5/18

CPC: A21B7/00 A23G9/04 A23G9/22 A23G9/28 A23G9/281 A23G9/282 F25B47/022 F25D29/00 G07F13/06 G07F17/0071 A23G9/045 A23G9/163 A23G9/20 A23G9/228 A23G9/283 A23G9/46 A23G9/48 F25B41/043 F25C1/145 A23G9/08 G07F11/002

European: A21B7/00 A23G9/02 A23G9/02+H2 A23G9/02+H6 A23G9/04 A23G9/04D A23G9/08 A23G9/16D A23G9/20 A23G9/22 A23G9/22N A23G9/28 A23G9/28D A23G9/28D2 A23G9/28D4 A23G9/46 A23G9/48 G07F11/00B G07F13/06 G07F17/00F2 R25B41/04B R25B47/02B R25C1/14C R25D29/00

US: 119/14.080S 119/14.140P 219/400 222/1 222/144.5 222/144.500 222/144.500S 222/145.6 222/145.600S 222/146.6 222/146.600S 222/1P 222/23 222/23S 222/52 426/231 426/231P 426/383 426/393 426/515 426/524 426/565 426/565S 53/127 62/132 62/132S 62/340 62/340S 62/342 62/342P 62/346 62/346S 62/354 62/354S 62/389 62/6 62/60 62/600 62/60P 62/66 62/71 62/71P 62/71S 99/334 99/450.1 99/450.100S 99/450.7 99/450.700S 99/455 99/455S 99/460 99/469

**Family:**

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CA2594854 AA	20070713	CA20062594854	20060117
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CN101252858 A	20080827	CN200680007440	20060117
CN1311756 C	20070425	CN20021056336	20021101
CN1471832 A	20040204	CN20021056336	20021101
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CN1754192 B	20110413	CN200480005053	20040203
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EP1448939 A4	20070718	EP20020789372	20021101
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EP1590776 A2	20051102	EP20040707767	20040203
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IN03680DN2005 A	20070824	IN2005DN03680	20050819
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JP2005538681 T2	20051222	JP20030543413T	20021101
JP2006517707 T2	20060727	JP20060503275T	20040203
JP2008526262 T2	20080724	JP20070551482T	20060117
JP2009278983 A2	20091203	JP20090159447	20090706
JP4383874 B2	20091216	JP20030543413T	20021101
MX2007008554 A1	20070925	MX20070008554	20060117
MXPA04004950 A1	20050408	MX2004PA04950	20021101
MXPA05008325 A1	20060228	MX2005PA08325	20040203
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US2004112078 AA	20040617	US20030726815	20031203

US2004154316 AA	20040812	US20030359834	20030207
US2004250554 AA	20041216	US20040881684	20040630
US2005198990 AA	20050915	US20040971796	20041022
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WO03041513 A3	20031127	WO2002US35123	20021101
WO04072913 A2	20040826	WO2004US03021	20040203
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WO06076733 A2	20060720	WO2006US01958	20060117
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Priority:

EP20020789372	20021101	JP20030543413	20021101	US20010336252P	20011102
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Probable Assignee: MOOBELLA ACQUISITION CORP

Assignee(s): (std): BAXTER JAMES R ; BRUNNER CHARLES S ; FEMATT RAFAEL ANTONIO ; MOUBALAR L L C ; KATEMAN PAUL ; KATEMAN PAUL R ; MOOBELLA LLC ; MOOBELLA INC ; PAUL R K ; LOWE STEVEN A

Assignee(s): MOOBELLA ACQUISITION CORP ; KINSLEY JOSHUA ; W HEALTH LP ; SILVER JASON ; ZIRPS CHRISTOPHER ; VARONE ANTHONY S ; MOUBALAR LLC ; FOCHT KENNETH A ; HAO SHERRY ; ELDEN ROBERT

Inventor(s): (std): BAXTER JAMES R ; BRENNER P CARTERMAN C S ; HAO SHEREY ; KATEMAN PAUL R ; KATEMAN PAUYL R ; LOWE STEVEN A ; SHERRY HAO ; ROBERT ELDEN ; PAUYL R KATEMAN ; PAUL KATEMAN ; P CARTERMAN ; KWO JENNIE ; JOSHUA KINSLEY ; JASON SILVER ; BEAULIEU RODERICK H ; ZIRPS CHRISTOPHER ; VARONE ANTHONY S ; SILVER JASON ; KINSLEY JOSHUA ; KATEMAN PAUL ; HAO SHERRY ; FOCHT KENNETH A ; ELDEN ROBERT ; CARTERMAN P ; BRUNNER CHARLES S ; BRENNER C S ; DECARLO JOHN M ; CS BRENNER ; CHRISTOPHER ZIRPS ; ZIRPS CHRISTOPHER T

Inventor(s): STEVEN A LOWE ; BAXTER JAMES ; C S BRENNER ; BRUNNER CHARLES ; JAMES R BAXTER ; P CARTERMAN C S BRENNER ; PAUL R KATEMAN ; CHARLES S BRUNNER ; ANTHONY S VARONE ; KENNETH A FOCHT ; LOWE STEVEN

Agent(s): SMART AND BIGGAR; RIDOUT AND MAYBEE LLP; RUPPRECHT KAY ET AL; RUPPRECHT KAY; CESARI AND MCKENNA LLP; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC; MCKENNA JOHN F; JOHN F

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

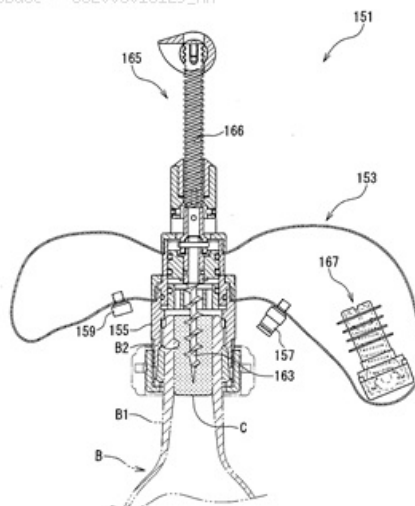
Title: PLUG REPLACING DEVICE AND PLUG REPLACING METHOD

Abstract: Source: US2005016129A A stopper change device (10) includes an airtight chamber body (21) detachably mountable on a head of a bottle, a gas supply port (19) for supplying N gas to the chamber body, an air vent **valve** (57) for discharging air from the chamber body, a first supporting structure (28) movable upward and downward for supporting a corkscrew, and a second supporting structure (34) movable upward and downward for containing a substitute stopper. The first and second supporting structures are mutually position changeable, and one of them is selectively placed above an opening of the bottle. When the first supporting structure (28) is placed above the opening, a bottle stopper can be pulled in N gas atmosphere. On the other hand, when the second supporting structure (34) is placed above the opening, the substitute stopper is mountable on the head of the bottle in N gas atmosphere. By changing the bottle stopper with the substitute stopper using this device, entering of air in the bottle as a cause of deterioration in a quality can be prevented.

Classifications:

International (IPC 8-9): B65B31/00 B65B31/02 B65B31/04 B65B7/28 B65D39/00 B65D51/16 B67B1/00 B67B1/04 B67B1/06 B67B3/24 B67B7/04 B67B7/06 B67B7/18 B67B7/44 B67D1/14 B67D3/00 B67D7/08 B67D7/80 F16D11/00 G01F11/02 G01F11/32 G01F15/18 (Advanced/Invention); B67B1/06 B67B7/06 B67D1/00 B67D1/04 B67D3/00 (Advanced/Non-invention); B67B1/00 B67B7/00 B67D1/00 B67D3/00 B67D7/08 B67D7/80 G01F11/00 G01F11/02 G01F15/00 (Core/Invention)
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PatBase - US2005016129_AA

**Family:**

Publication number	Publication date	Application number	Application date
AT365144 E	20070715	AT20030733049T	20030523
AT381513 E	20080115	AT20030733050T	20030523
AU2003241754 AA	20031212	AU20030241754	20030523
AU2003241754 BB	20081218	AU20030241754	20030523
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CN1596220 A	20050316	CN20038001619	20030523
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US20060639014	20061214				

Probable Assignee: EIJI YOSHIDA C O EVERYDAYWINE

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Inventor(s): NAKAYAMA IKUO ; YOSHIDA EIJI YAHAGI KEIICHI MATSUNAGA HIROYUKI

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MARKS AND CLERK; DUANE MORRIS LLP IP DEPARTMENT; DUANE MORRIS LLP; DUANE MORRIS LLP, IP DEPARTMENT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: ONE-WAY VALVE AND APPARATUS USING THE VALVE

Abstract: Source: US2006151051A An apparatus has a valve body defining a first passageway, a valve seat, and a flow aperture extending through the valve body and coupled in fluid communication with the first passageway. A valve cover of the apparatus is formed of an elastic material and includes a cover base mounted on the valve body and fixedly secured against movement relative thereto, and a valve portion overlying the valve seat. The valve portion defines a predetermined radial thickness and forms an interference fit with the valve seat. The valve portion and the valve seat define a normally closed, axially-extending valve opening therebetween. The valve portion is movable between a normally closed position with the valve portion engaging the valve seat, and an open position with at least a segment of the valve portion spaced away from the valve seat to connect the valve opening in fluid communication with the flow aperture to thereby allow the passage of fluid from the flow aperture through the valve opening. A hermetically sealed variable-volume storage chamber stores therein multiple portions of the fluid and is connectible in fluid communication with the one-way valve assembly. A pump is coupled between the variable-volume storage chamber and the one-way valve assembly, and is configured to pump discrete portions of fluid from the variable-volume storage chamber, through the flow aperture, and through the valve opening to dispense the portions of fluid through the valve assembly.

Classifications:

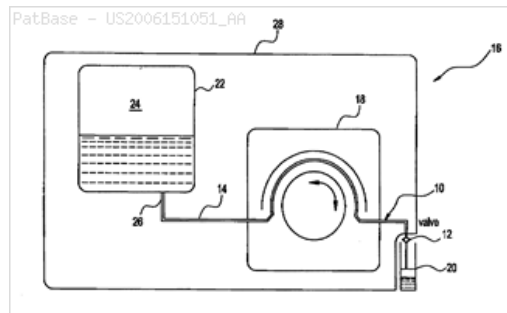
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International (ipc 1-7): G06Q10/00

CPC: F16K15/145 Y10T137/7761 F04B43/1238 B65B39/004 B67D1/0004 B67D1/0007 B67D1/0009 B67D1/0082 B67D1/10 B67D1/1279 B67D3/04 B67D2001/0827 F04B53/1037 B65D51/002 B67D1/108 B67D1/0801 B67D3/0067 B05B11/0021 B65D51/1616

European: B65B39/00A3 B67D1/00E2 B67D1/00E2B4 B67D1/00E4 B67D1/00H8B B67D1/10 B67D1/10D B67D1/12M2 B67D3/04 F04B43/12F F04B53/10F F16K15/14H2 L67D1/08A36

US: 1/1 137/487.5 137/487.500P 141/301 141/301S 141/67 141/67P 222/1 222/105 222/173 222/206 222/207 222/212 222/213 222/214 222/214S 222/215 222/494 222/52 222/632 222/633

**Family:**

Publication number	Publication date	Application number	Application date
AU2005314177 AA	20060615	AU20050314177	20051205
AU2005314177 BB	20101028	AU20050314177	20051205
AU2011200357 AA	20110217	AU20110200357	20110128
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KR20070092976 A	20070914	KR20077015351	20070704
MX2007006659 A1	20070815	MX20070006659	20051205
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RU2393102 C2	20100627	RU20070120476	20051205
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WO06063000 A3	20060908	WO2005US44167	20051205
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Assignee(s): MEDICAL INSTILL TECHNOLOGIES I ; MEDINSTILL DEVELOPMENT LLC ; MEDIKAL INSTILL TEKNOLODZHIS INK ; MEDICAL INSTILL TECHNOLOGIES INC

Inventor(s): (std): ADAMO BENOIT ; ADAMO BENUA ; BENOIT ADAMO ; CHAN JULIAN V ; CHEN DZHULIAN V ; DANIEL PY ; KHOULI NATANIEHL ; NATHANIEL HOULE ; PAJ DEHNIEL ; PY DANIEL ; HOULE NATHANIEL

Inventor(s): KHOULI NATANIEHL' ; JULIAN V CHAN ; JULIAN VCHAN ; CHAN JULIAN

Agent(s): IP GATEWAY PATENT AND TRADEMARK ATTORNEYS PTY LTD; IP GATEWAY PATENT AND TRADEMARK ATTORNEYS; IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; RIDOUT AND MAYBEE LLP; MCCARTER AND ENGLISH LLP, CITYPLACE I; MCCARTER AND ENGLISH LLP CITYPLACE I; MCCARTER AND ENGLISH LLP HARTFORD CITYPLACE I; MCCARTER AND ENGLISH LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: DIGITAL FLOW CONTROL

Abstract: Source: US2007187438A A digital flow control assembly for controlling the volumetric flow rate of fluids includes a fluid flow conduit, a plurality of serially-arranged flow nodes positioned along a length of the fluid flow conduit, and a device for generating a signal. The device for generating a signal is used to adjust one or more of the plurality of serially-arranged flow nodes to maintain a desired volumetric flow rate of fluid in the fluid flow conduit. A method for controlling the volumetric flow rate of fluids includes providing a fluid flow conduit, providing a plurality of serially-arranged flow nodes positioned along a length of the fluid flow conduit, and providing a feedback signal to adjust one or more of the plurality of serially-arranged flow nodes to maintain a desired volumetric flow rate of fluid in the fluid flow conduit.

Classifications:

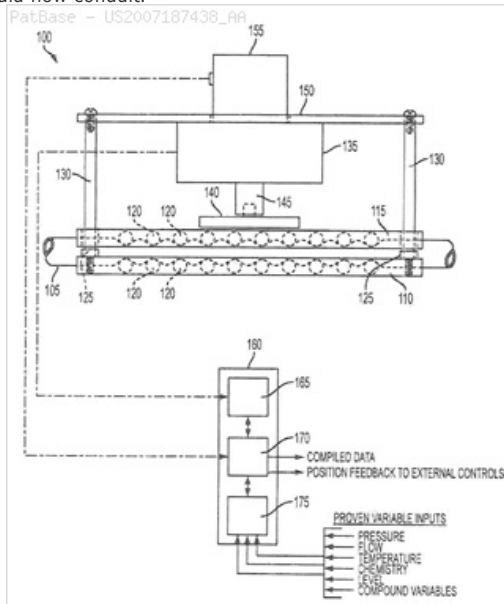
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International (IPC 1-7): G05D7/06

CPC: B67D1/0007 B67D1/0081 B67D1/0406 B67D1/0855 B67D1/0882 B67D1/1211 G05D7/0635 B67D1/06 B67D1/0864 B67D1/0884 B67D1/0888 B67D1/1275 B67D1/1416 B67D1/1438 B67D1/0857 B67D1/1234 B67D1/1272 F17C13/04 Y10T137/7761 Y10T137/87981 G05D7/0647 F16K7/045 F16K7/06 F16K27/003 B67D1/124 B67D1/1243 B67D1/127 B67D1/1411 G05D7/0652 Y10T137/87917

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US: 1/1 137/487.5 137/613 137/614.11 141/256 141/373 141/374 141/67 141/83 141/83P 141/94 141/98 222/146.6 222/146.600S 222/212 222/394 222/504 222/510 222/547 222/559 222/564 222/594 222/71

**Family:**

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Probable Assignee: DD OPERATIONS LTD

Assignee(s): (std): DD OPERATIONS LTD UK CO 8149351 ; DD OPERATIONS LTD ; NIAGARA DISPENSING TECHNOLOGIE ; GAGLIANO THOMAS ; NIAGARA DISPENSING TECHNOLOGIES INC ; VOGT DOUGLAS ; PHALLEN IVER J

Assignee(s): RAND CAPITAL SBIC LP ; SHAW ROBERT G ; SHAW KATHLEEN A ; SAMUEL D MAGAVERN TRUST ; STAY

GERALD T ; ZEBRO DAVID M ; SCHIFF MICHAEL D ; XTEC LLC ; SAMUEL D MAGAVERN TRUST #2 ;
SCHIFF MICHAEL D MD ; SAMUEL D MAGAVERN TRUST 2 ; GELIA CHARLES ; HOFMAR DONALD ;
JOHNSON BRAD ; JOHNSON COURTNEY ; MAGAVERN WILLIAM J ; MAGAVERN JAMES L ; FAUST
FRANCIS ; GELIA EDWARD SR ; KINERK TOBY D ; GIOIA ROBERT D ; JOYCE WILLIAM L ; MARTIN
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NIAGARA PUMP CORP ; EMPIRE STATE DEVELOPMENT SMALL BUSINESS TECHNOLOGY INVESTMENT
FUND ; LAW OFFICES OF MEILMAN AND COSTA PC PROFIT SHARING PLAN ; 2400 PINE AVENUE LLC ;
AMHERST TECH VENTURES LLC ; BOYD AUDRY S ; BOYD JOHNSON ELIZABETH ; BOYD WILLIAM S ;
BRANCHINI THOMAS ; BUFFALO AND ERIE COUNTY REGIONAL DEVELOPMENT CORP ; DIFIORE JOHN ;
CASTIGLIA JOSEPH J ; CLARKE WILLIAM F ; BROST GARY M ; CELTIC CAPITAL LLC ; DUNBAR JOHN F ;
DUNBAR JOHN F JR ; EMPIRE STATE DEVELOPMENT SMALL BUSINESS TECHNOLOGY ;
DIGITALDISPENSE USA LLC

Inventor(s): (std): CORBETT ROBERT C ; PHALLEN IVER J ; HIGNER KIRK D ; GAGLIANO THOMAS ; DOUGLAS VOGT ;
VOGT DOUGLAS ; THOMAS GAGLIANO

Inventor(s): PHALLEN IVER J YOUNGSTOWN ; IVER J PHALLEN ; KIRK D HIGNER ; PHALLEN IVER ; VOGT DOUGLAS
GRAND ISLAND

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; CANZLER AND
BERGMEIER PATENTANWALTE; PETERREINS FRANK; LAWRENCE JOHN; FISH AND RICHARDSON PC;
GREENBERG TRAURIG LLP; RIFFE TIMOTHY A

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY
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MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ
TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ONE-WAY VALVE AND APPARATUS AND METHOD OF USING THE VALVE

Abstract: A **flexible pouch** and valve assembly is provided for aseptically storing a substance, dispensing multiple portions of the stored substance therefrom, and maintaining substance remaining in the pouch in an aseptic condition sealed with respect to ambient atmosphere. The **flexible pouch** and valve assembly are receivable within a relatively rigid housing, and are adapted to cooperate with a pump for pumping discrete portions of substance from the pouch and through the one-way valve to dispense the substance therefrom. The assembly comprises a **flexible pouch** defining therein a variable-volume storage chamber sealed with respect to the ambient atmosphere for aseptically storing therein multiple portions of the substance. A one way valve of the assembly includes a valve body defining an axially-extending valve seat and at least one flow aperture extending through the valve body and/or the valve seat. A valve cover is mounted on the valve body, and includes an axially-extending portion formed of an elastic material overlying the valve seat and covering a substantial axially-extending portion thereof. The valve portion defines a predetermined radial thickness and forms an interference fit with the valve seat. The valve portion and the valve seat define an axially-extending seam therebetween forming a normally closed, axially-extending valve opening, and the valve portion is movable radially between (i) a normally closed position with the valve portion engaging the valve seat, and (ii) an open position with at least a segment of the valve portion spaced radially away from the valve seat to connect the valve opening in fluid communication with the at least one flow aperture and thereby allow the passage of substance from the variable-volume storage chamber through the valve opening. In the normally closed and open positions, the one-way valve maintains substance remaining in the variable- volume storage chamber in an aseptic condition and sealed with respect to the ambient atmosphere.

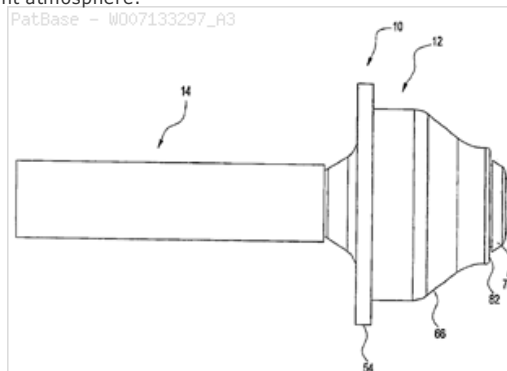
Classifications:

International (IPC 8-9): B65D1/04 B65D37/00 B65D47/00 B67D1/00 B67D3/00 F16K51/00 H01L21/44 (Advanced/Invention); B65D1/04 B65D37/00 H01L21/02 (Core/Invention); B65D (Subclass/Invention)

International (IPC 1-7): H01L21/44

CPC: B67D1/0004 B67D1/0082 B67D1/10 B67D1/108 B67D2001/0827 F16K15/145

European: B67D1/00E2 B67D1/00H8B B67D1/10 B67D1/10D F16K15/14H2 L67D1/08A36



Family:

Publication number	Publication date	Application number	Application date
AU2007250178 AA	20071122	AU20070250178	20070105
AU2007250178 BB	20110901	AU20070250178	20070105
AU2007250178 CA	20120712	AU20070250178	20070105
CA2636311 AA	20080704	CA20072636311	20070105
CA2636311 C	20140923	CA20072636311	20070105
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EP1973792 A2	20081001	EP20070709610	20070105
EP1973792 A4	20110831	EP20070709610	20070105
IN05854DN2008 A	20080926	IN2008DN05854	20080704
IN276537 B	20161028	IN2008DN05854	20080704
MX2008008761 A1	20080912	MX20080008761	20070105
RU2008127114 A	20100210	RU20080127114	20070105
RU2527119 C2	20140827	RU20080127114	20070105
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WO07133297 A3	20080228	WO2007US00419	20070105
ZA200805870 A	20100224	ZA20080005870	20070105

Priority:

AU20050314177	20051205	AU20070250178	20070105	US20050644130P	20050114
US20050644130P	20050114	US20040633332P	20041204	US20040633332P	20041204
US20060757161P	20060105	WO2007US00419	20070105		

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: BEVERAGE COOLING SYSTEM

Abstract: Source: US2008141702A A **beverage dispenser** for **dispensing** a carbonated **beverage** from a **beverage** source into a receptacle. The **dispenser** includes a first housing defining an interior volume and having a first surface closer to the beverage source and a second surface further from the **beverage** source. The **dispenser** also includes a **beverage** cooler including a second housing having a top surface, a bottom surface, and sides defining an interior volume. A first circuit is disposed within the interior volume of the second housing and forms a first set of fluid flow paths. A second circuit is disposed within the interior volume of the second housing and forms a second set of fluid flow paths in parallel with the first set of fluid flow paths. A third circuit is disposed within the interior volume of the second housing and forms a third set of fluid flow paths in parallel with the first and second sets of fluid flow paths, wherein, the first, second, and third circuits defines an inlet and an outlet. The **beverage dispenser** also includes a first tubing in fluid communication with the beverage source entering the second housing and coupled to the inlet of the first, second, and third circuits. In addition, the **beverage dispenser** includes a second tubing coupled to the outlet of each of the first, second, and third circuits and entering the first surface of the first housing and terminating proximate the second surface of the first housing. The **beverage dispenser** also includes a multi-nodal flow rate controller disposed within the interior volume of the first housing in contact with the second tubing, and a subsurface dispensing nozzle in fluid communication with the terminal end of the second tubing.

Classifications:

International (IPC 8-9): B67D1/00 B67D1/12 B67D5/62 B67D7/80

B67D99/00 F25D17/00 (Advanced/Invention);

B67D7/80 (Core/Invention)

CPC: B67D1/0007 B67D1/0406 B67D1/06 B67D1/0855 B67D1/0864

B67D1/0884 B67D1/0888 B67D1/1211 B67D1/124 B67D1/1243

B67D1/127 B67D1/1272 B67D1/1275 B67D1/1405 B67D1/1411

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European: B67D1/00E2B4 B67D1/04A B67D1/06 B67D1/08C

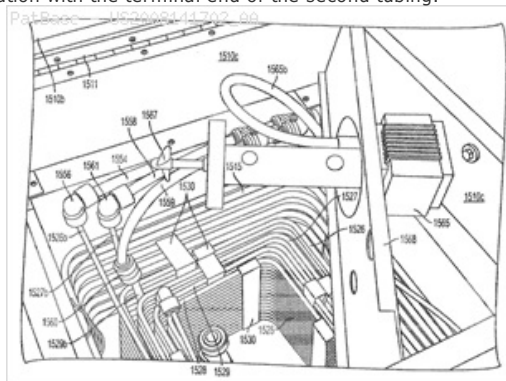
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B67D1/12L2 B67D1/12L4 B67D1/14B B67D1/14B2 B67D1/14B2B

B67D1/14B4 L67D210/00D16D4

US: 222/146.6 222/146.600S 62/389 62/389P 62/390

**Family:**

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US2008141702 AA	20080619	US20070711139	20070227
US7823411 BB	20101102	US20070711139	20070227
WO08106514 A1	20080904	WO2008US55132	20080227

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US20060611834 20061215 US20070711139 20070227

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW